	Application No.	Applicant(s)	Applicant(s)	
Notice of Allowability	09/506,078	CAMPOS ET AL.		
	Examiner	Art Unit	T	
	Shanon Foley	1648		
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commits application is	in this application. If not includ	ded	
1. This communication is responsive to 7/1/4.				
2. The allowed claim(s) is/are 37 and 38.				
3. The drawings filed on 16 February 2000 are accepted by the	ne Examiner.			
 4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application	on No	ition from the	
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file ENT of this application.	a reply complying with the rec	quirements	
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which gives	tted. Note the attached EXAs reason(s) why the oath or	AMINER'S AMENDMENT or N r declaration is deficient.	OTICE OF	
6. CORRECTED DRAWINGS (as "replacement sheets") must	be submitted.			
(a) \square including changes required by the Notice of Draftsperso		v (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or	in the Office action of		
Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the	34(c)) should be written on the	ne drawings in the front (not the	back) of	
DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT F	it of BIOLOGICAL MATE	ERIAL must be submitted. N	lote the	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Inf	formal Patent Application (PTC)-152)	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Su	6. ☐ Interview Summary (PTO-413), Paper No./Mail Date		
 Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 	Paper No./I i), 7. ⊠ Examiner's /	Mail Date Amendment/Comment		
4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's :	Statement of Reasons for Allov	wance	
of Biological Material	9.	- ·		

EXAMINER'S AMENDMENT

The previous Examiner's Amendment mailed July 28, 2004 is VACATED.

The previous Examiner's amendment contained an inadvertent typo wherein new claim 38 inadvertently referred to the same SEQ ID NOs within the fusion protein as claim 37. The instant amendment remedies the inadvertent typo in claim 38. The fusion protein of claim 38 now comprises SEQ ID NO: 13 and SEQ ID NO: 35, which was obviously intended in the statement of reasons for allowance.

Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Claims 21 and 36 have been cancelled and new claims 37 and 38 have been added.

- 37. (New) A fusion protein for producing an immune response in a vertebrate, which fusion protein comprises:
- (a) a first proteinaceous portion comprising a peptide sequence of the gonadotropin releasing hormone (GnRH) peptide as set forth in SEQ ID NO: 13 connected to
- (b) a second proteinaceous portion comprising a polypeptide sequence of the Bovine Herpes Virus Type-1 (BHV-1) gD protein as set forth in SEQ ID NO: 29;

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wherein the activity of said GnRH peptide is to be inhibited within the vertebrate, and which proteinaceous portion by itself is incapable of eliciting an effective immunoinhibitory response in said vertebrate and when the vertebrate is vaccinated with an effective amount of said fusion protein, the vertebrate recognizes said first proteinaceous portion (a) and induces an immune response capable of inhibiting the activity of said GnRH peptide within the vertebrate.

- 38 (New) A fusion protein for producing an immune response in a vertebrate, which fusion protein comprises:
- (a) a first proteinaceous portion comprising a peptide sequence of the GnRH peptide as set forth in SEQ ID NO: 13 connected to
- (b) a second proteinaceous portion comprising a polypeptide sequence of the BHV-1 gD protein as set forth in SEQ ID NO: 35;

wherein the activity of said GnRH peptide is to be inhibited within the vertebrate, and which proteinaceous portion by itself is incapable of eliciting an effective immunoinhibitory response in said vertebrate and when the vertebrate is vaccinated with an effective amount of said fusion protein, the vertebrate recognizes said first proteinaceous portion (a) and induces an immune response capable of inhibiting the activity of said GnRH peptide within the vertebrate.

The following is an examiner's statement of reasons for allowance:

As stated in the Office action March 9, 2004, the prior art does not teach or suggest SEQ ID NOs: 29 or 35. The prior art also does not teach or suggest a fusion protein comprising either of these sequences in the alternative with SEQ ID NO: 13.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shanon Foley whose telephone number is (571) 272-0898. The examiner can normally be reached on M-F 9:30 AM - 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Housel can be reached on (571) 272-0902. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Shanon Fol

Patent Examiner, 1648